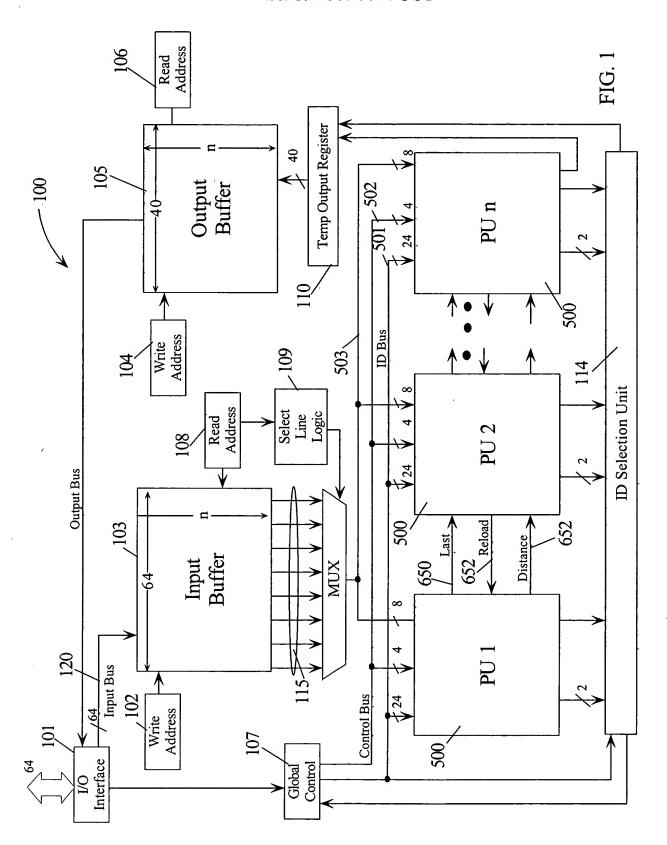
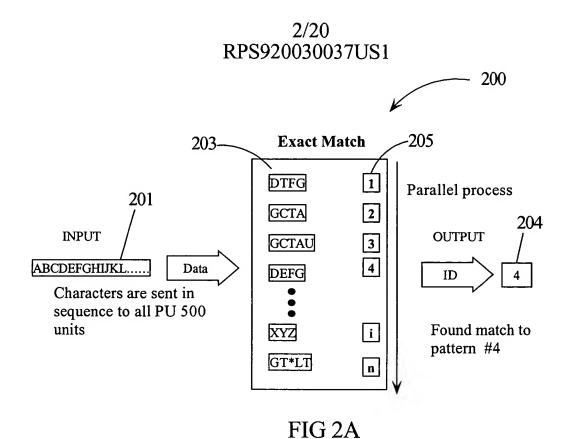
1/20 RPS920030037US1





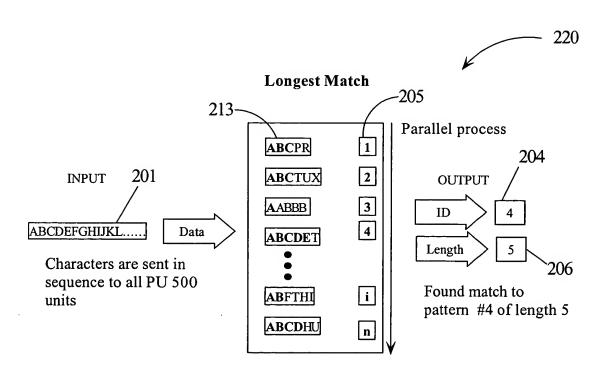


FIG 2B

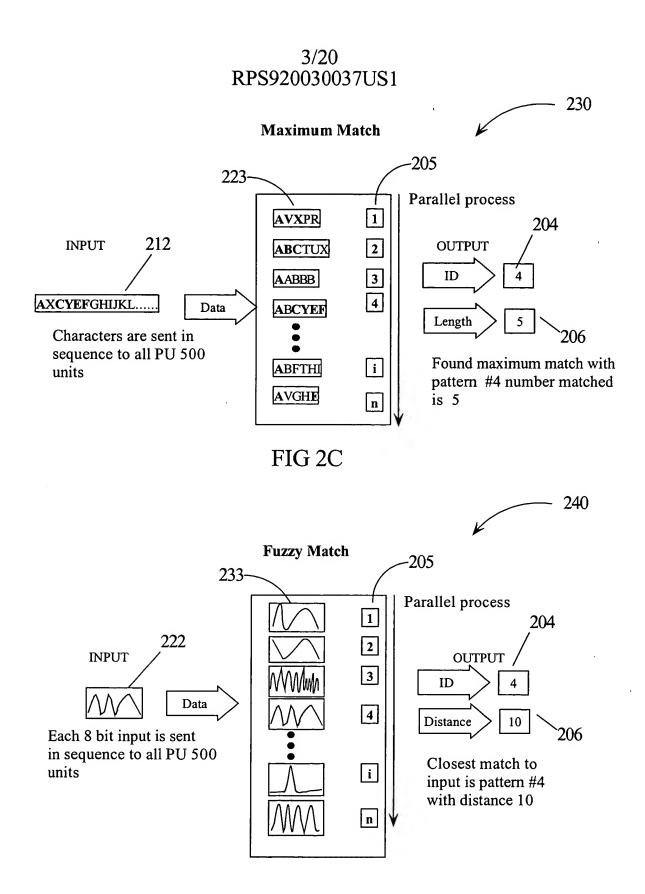


FIG 2D

4/20 RPS920030037US1

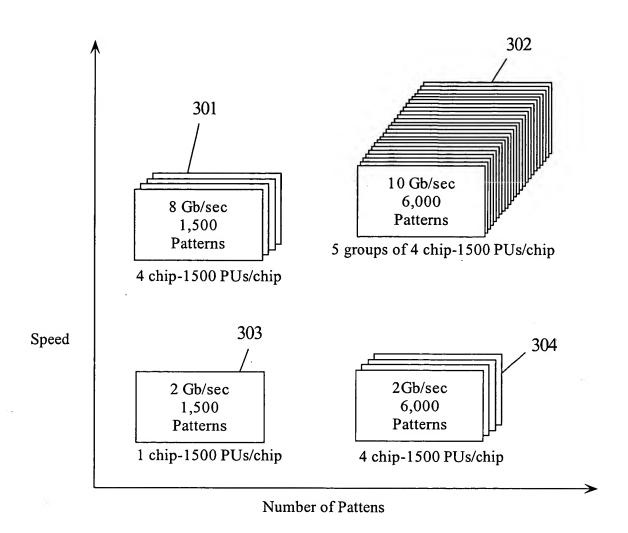
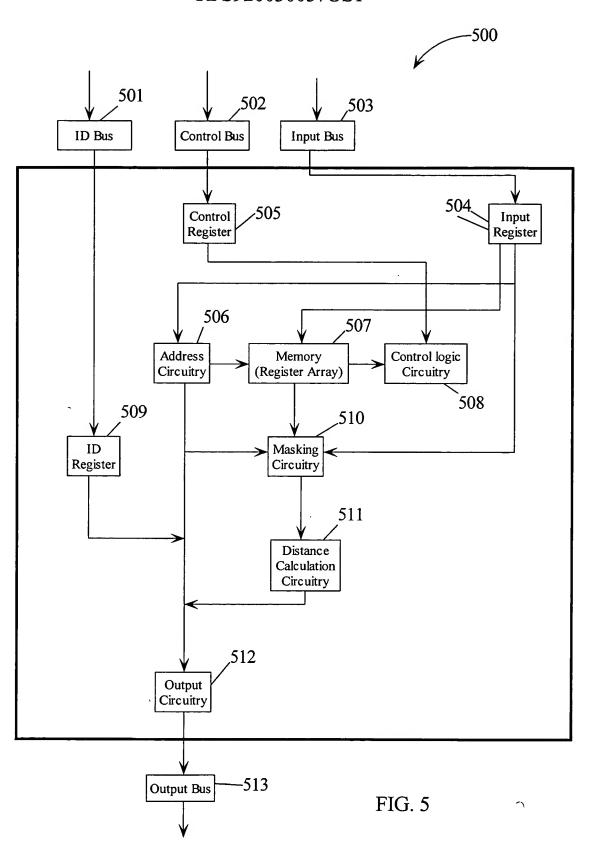


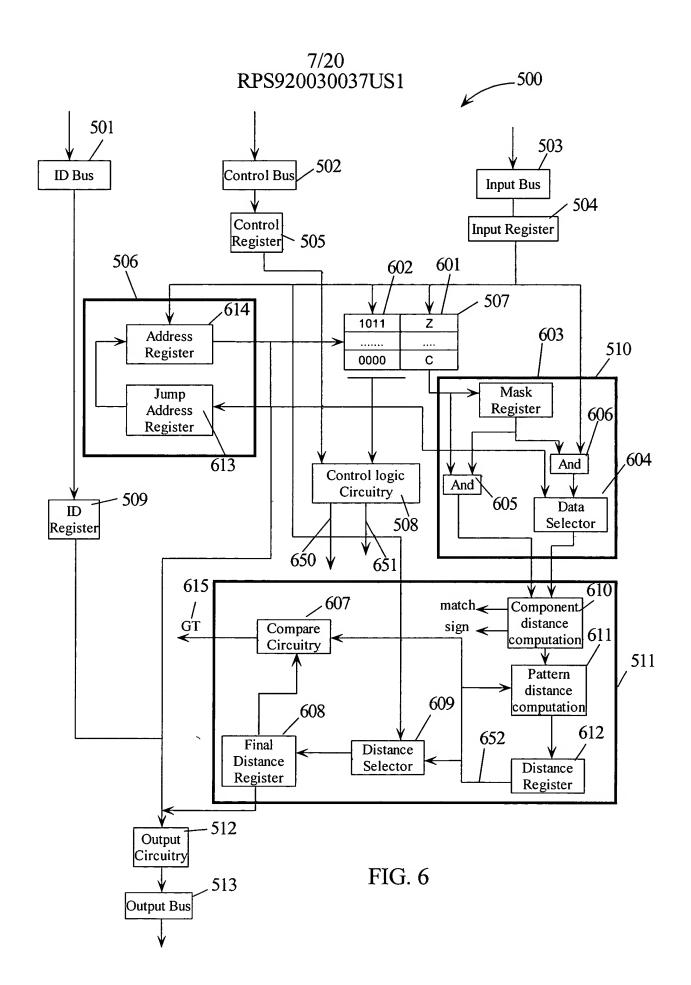
FIG. 3

PPDE 100 Technical Features

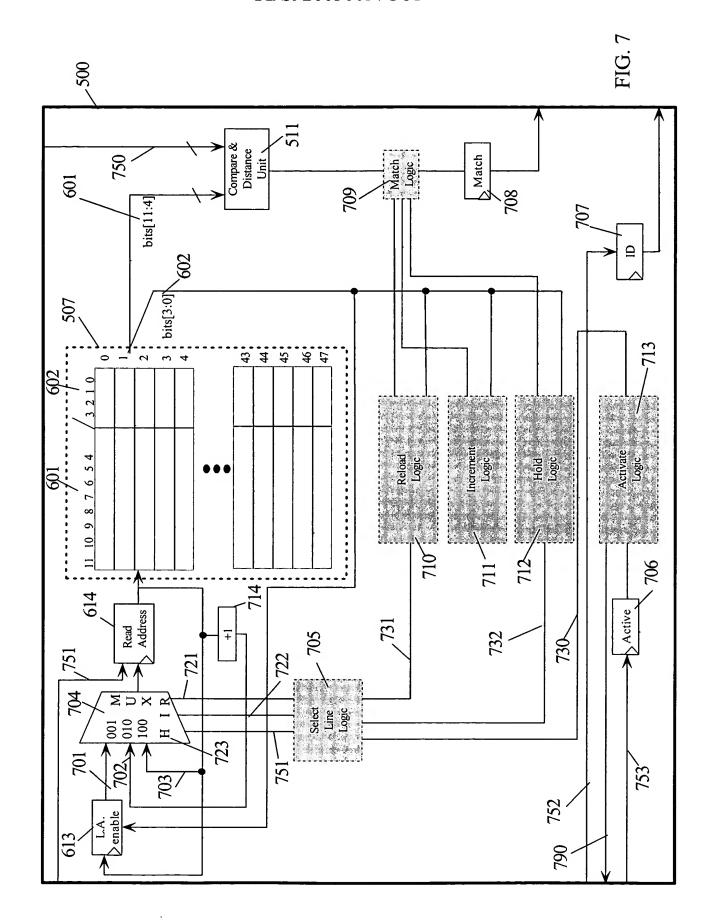
Frequency	0 to 250 MHz
Bandwidth	2Gb/sec at 250 MHz
Compute Power	1.25 TOPS Equivalent
Power Consumption	300mW at 250MHz
Power Supply Vlotage	1.5 V internal (2.5 and 3.3 V compatible)
Technology	CMOS .13 Micron
I/O Pins	88
Die Size	8mm X 8mm
Interface	Fexible interface: max. 64 bits at 66 MHz (max. rate: 4Gb/sec)

6/20 RPS920030037US1

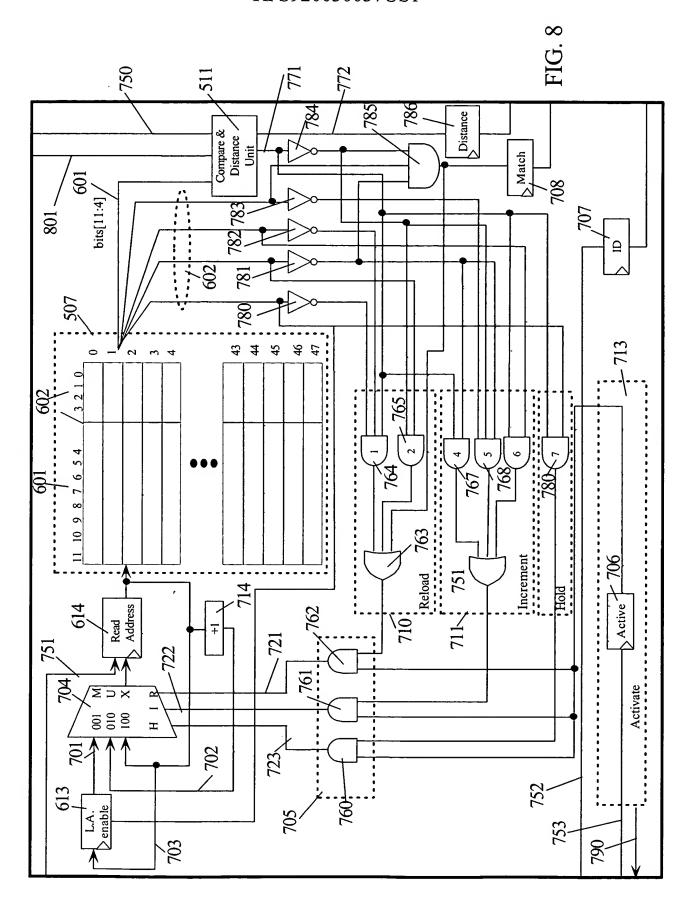




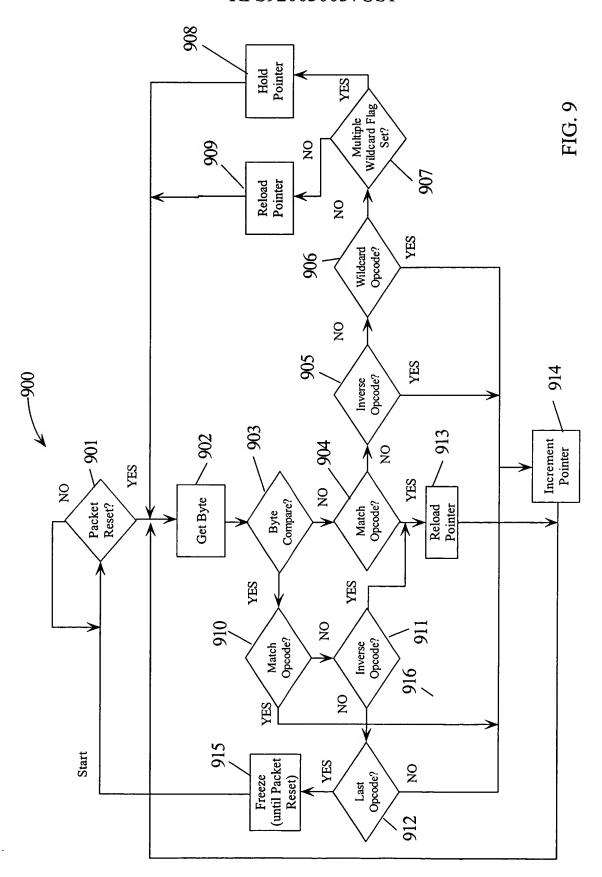
8/20 RPS920030037US1

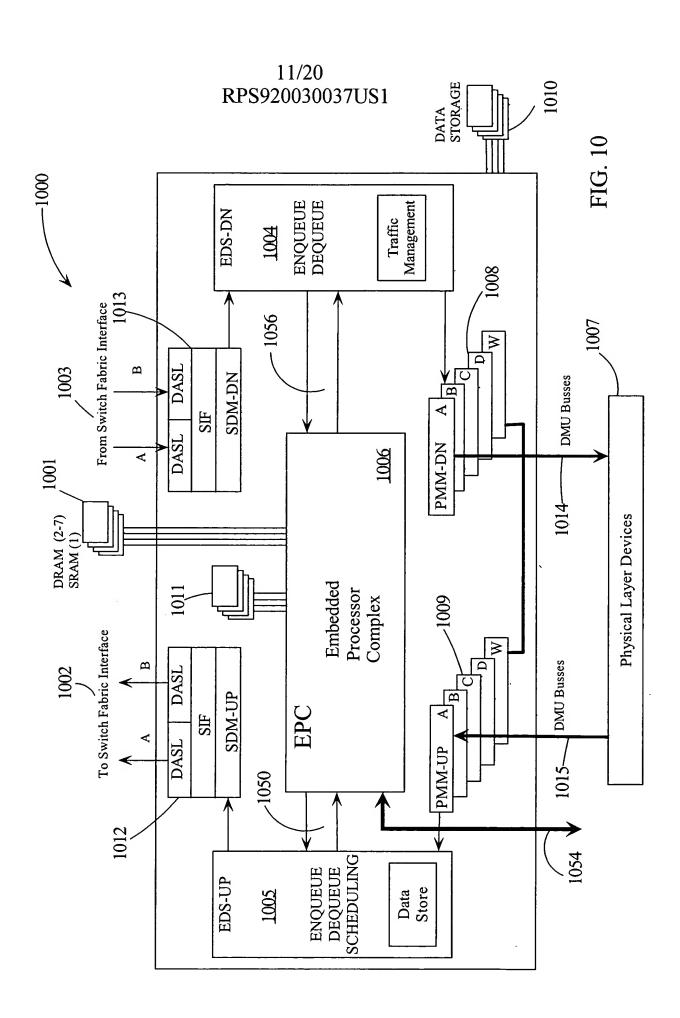


9/20 RPS920030037US1

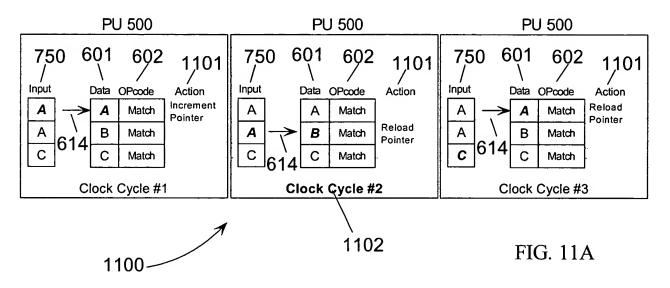


10/20 RPS920030037US1





Case 1: Reload if there is NOT a pattern match and the match OPcode is set Partial expression to match: "ABC"



Case 2: Reload if there is a pattern match and the inverse OPcode is set for a pattern byte Partial Expression to match: "C!DE"

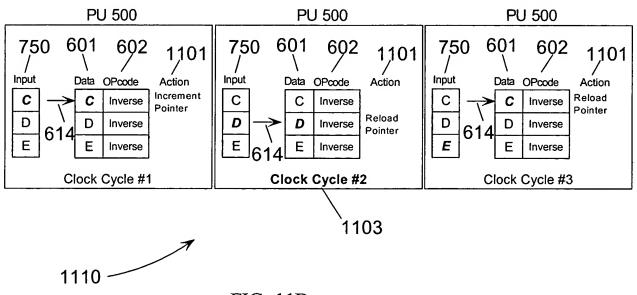


FIG. 11B

13/20 RPS920030037US1

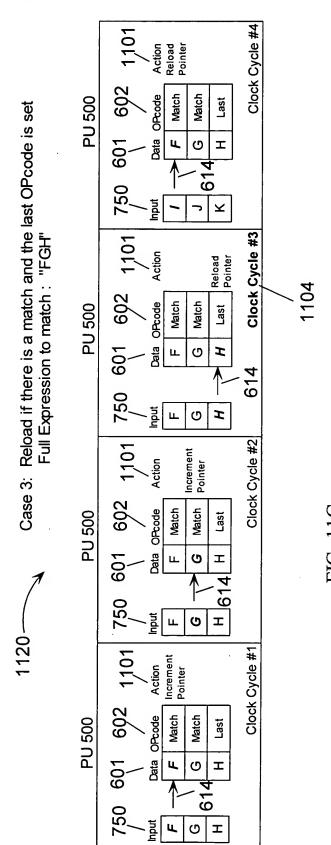


FIG. 110

Case 4: Increment if there is NOT a pattern match and the inverse OPcode is set Partial expression to match: "I!LK"

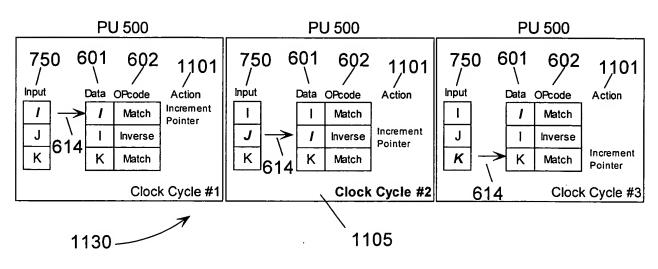


FIG. 11D

Case 5: Increment if there is a pattern match and the match OPcode is set Partial Expression to match: "LMN"

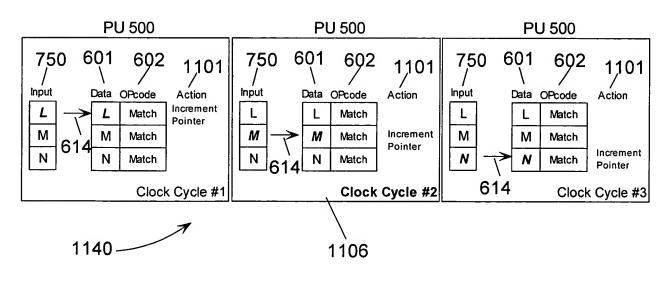


FIG. 11E

Case 6: Increment if there is NOT a pattern match and the wildcard OPcode is set Partial expression to match: "O∙Q"

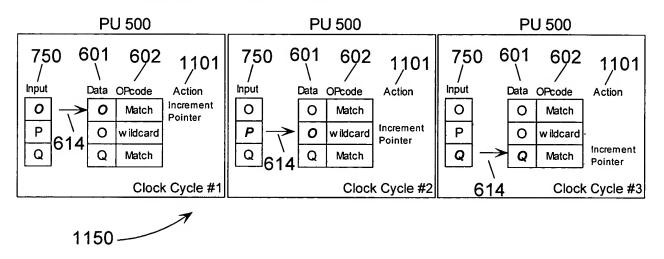


FIG. 11F

16/20 RPS920030037US1

Clock Cycle #4 Increment Pointer Match Match Data OPcode PU 500 Case 7: Hold if there is NOT a match and the multiple wildcard OPcode is set 614 > Clock Cycle #3 Action Increment Pointer Match Match PU 500 614 Full Expression to match: "TUV" Clock Cycle #2 Action Hold Pointer Multiple Match PU 500 614 Clock Cycle #1 Action Hold Pointer Multiple Match Data OPcode PU 500 614 S

FIG. 11G

17/20 RPS920030037US1

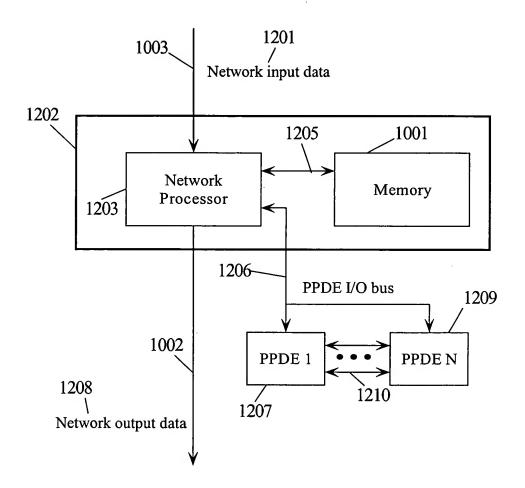
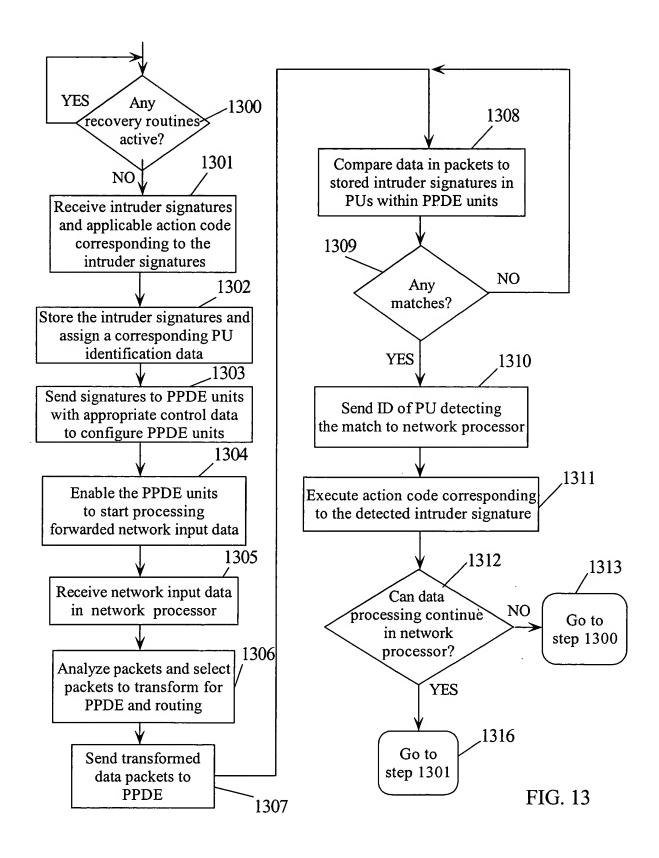


FIG. 12

18/20 RPS920030037US1



19/20 RPS920030037US1

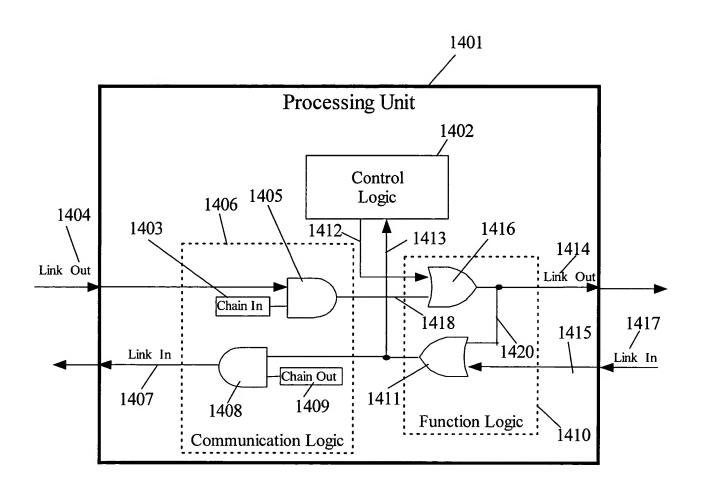


FIG. 14

20/20 RPS920030037US1

